

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P210841

Luminaire Tested: **LE_4B10D010 EC4B10209030 4LBN1GPH**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P210841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P35319)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LE_4B10D010 EC4B10209030 4LBN1GPH
Description: PORTFOLIO 4 INCH CYLINDER
NARROW DISTRIBUTION WITH GRAPHITE HAZE TRIM
WATTAGE D010TR-10.05W DE010-10.58W D5LT-10.2W DMX-10.6W DL2-11.8W
DL3-11.1W DLE-11.39W
Light Source: HIGH LUMEN LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 498.2 lumens
Efficiency: N/A
Efficacy: 50.3 lumens/watt
Spacing Criteria (0/90/45): 0.86 / 0.86 / 0.88
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

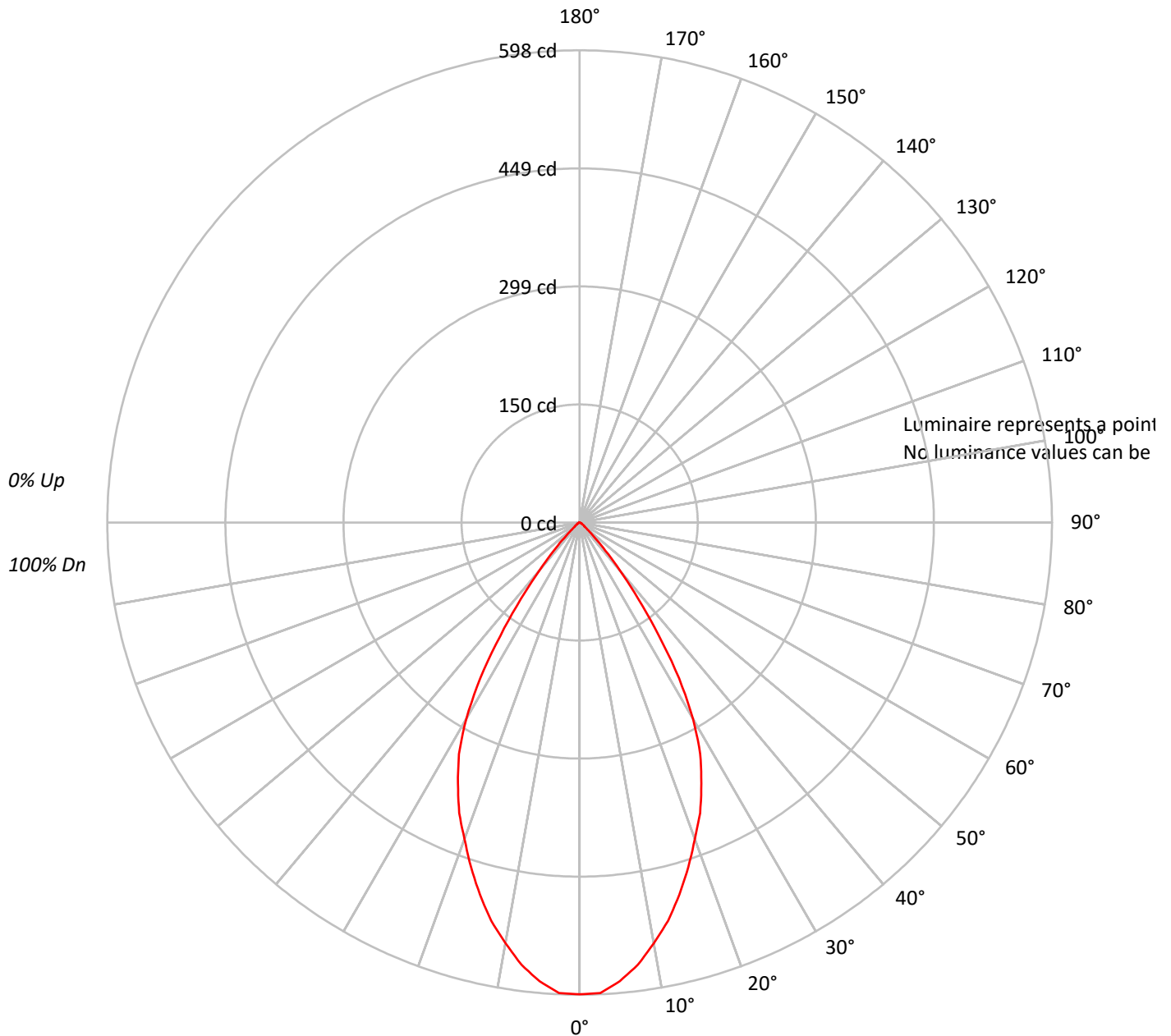
Input Watts (W): 9.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





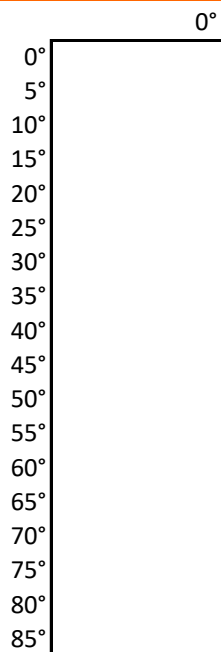
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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10		50	30	10		50	30	10		50	30	10
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	114	111	108	106	111	109	106	104		105	103	101		101	100	98		97	96	95
2	108	103	99	96	106	101	98	95		98	95	93		95	93	91		93	91	89
3	103	96	91	87	101	95	90	87		92	88	85		90	87	84		88	85	83
4	97	90	84	80	96	89	84	80		87	82	79		85	81	78		83	80	77
5	93	84	78	74	91	83	78	74		82	77	73		80	76	73		78	75	72
6	88	79	73	69	86	78	73	69		77	72	68		75	71	68		74	70	67
7	84	74	68	64	82	74	68	64		72	67	64		71	67	63		70	66	63
8	80	70	64	60	78	70	64	60		68	63	60		67	63	59		66	62	59
9	76	66	60	56	75	66	60	56		65	60	56		64	59	56		63	59	56
10	72	63	57	53	71	62	57	53		61	56	53		61	56	53		60	56	52

AVERAGE LUMINANCE (cd/sqm):





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	10.9
10°-20°	136.2	27.3
20°-30°	166.0	33.3
30°-40°	109.5	22.0
40°-50°	25.2	5.1
50°-60°	4.8	1.0
60°-70°	1.8	0.4
70°-80°	0.5	0.1
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	356.5	71.5
0°-40°	466.0	93.5
0°-60°	496.0	99.6
0°-90°	498.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	498.2	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	598	
5°	583	54
15°	488	136
25°	365	166
35°	175	109
45°	28	25
55°	5	5
65°	1	2
75°	0	0
85°	0	0
90°	0	



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CANDELA DISTRIBUTION (FULL):

	0°
0°	597.5
2.5°	596.4
5°	583.1
7.5°	564.9
10°	540.8
12.5°	516.7
15°	487.7
17.5°	457.5
20°	426.2
22.5°	398.3
25°	364.6
27.5°	330.7
30°	287.3
32.5°	234.2
35°	175.0
37.5°	121.9
40°	78.4
42.5°	48.3
45°	27.7
47.5°	14.5
50°	8.5
52.5°	7.2
55°	4.9
57.5°	3.6
60°	3.6
62.5°	2.4
65°	1.2
67.5°	1.2
70°	1.2
72.5°	1.2
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



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— 0°-180°







(END OF REPORT)